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VERSION WITH MARKINGS TO SHOW CHANGES MADE

3. A device according to claim 1 ~~or 2~~, characterised in that the lower face of the carpet comprises at least a type of protruding elements with respect to the general plane of the lower face.

5. A device according to ~~any of the previous claims~~ claim 1, characterised in that the through opening (24) for the tool comprises at least one chamfered edge and preferably the rear rim (24') according to the forward direction of the device.

6. A device according to ~~any of the previous claims~~ claim 1, characterised in that a deflecting member (15) is fixed to the frame, whereas the said member is placed at the rear of the ejection area of the cores so that the ejected cores (8) are thrown back onto the receiving member.

7. A device according to ~~any of the previous claims~~ claim 1, characterised in that the receiving member comprises at least along both its free lateral edges rims (21, 21', 105) intended for maintaining the waste on the receiving member.

10. A device according to ~~any of the previous claims~~ claim 1, characterised in that the receiving member is modular, whereas the different modules (102, 103, 104, 108, 109) are connected together by dismountable joints (106, 107).

13. A device according to claim 11 ~~or 12~~, characterised in that the lower face of the rear section (104) comprises chevrons.

14. A device according to any of the previous claims claim 1, characterised in that flexible carpet is made of an elastomer material, in particular a reinforced material, advantageously a reinforced polyurethane material.

15. A device according to any of the previous claims claim 1, characterised in that the receiving member (101) is divided to form longitudinal bands, extending from front to back, notably into two bands (108,109) hinged together by at least one dismountable joint (107).

16. A device according to any of the claims 10 to 15 claim 10, characterised in that the dismountable joint (106,107) consists of an elongated member linking rings that are staggered along the hinged edges of the transversal sections and/or longitudinal bands, whereby the said elongated member is a flexible cable.

17. A device according to any of the previous claims claim 1, characterised in that it comprises a means enabling to unfold and/or to raise the carpet.

18. Method for implementing a device for treating ~~soil~~ soil by aeration consisting in sampling cores from the soil with tools, then in storing them in the device of ~~any of the previous claims~~ claim 1 comprising a flexible carpet, characterised in that the cores ejected from the tools and falling onto the upper face of the flexible carpet, are stored (8') and in that the carpet rests on the soil by at least a section of its lower face.